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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/814,807	04/01/2004	Masato Hayashi	042320	5316
38834 7590 05/25/2007 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			EXAMINER	
			RHEE, JANE J	
SUITE 700 WASHINGTON, DC 20036		ART UNIT	PAPER NUMBER	
		1745		
			MAIL DATE	DELIVERY MODE
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		•	05/25/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/814,807	HAYASHI ET AL.		
		Examiner	Art Unit		
4	,	Jane Rhee	1745		
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exter after: - If NO - Failui Any r	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	J. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status	•				
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on 10 M This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
 4) Claim(s) 1 and 2 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers				
10) 🗌 -	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Example 2.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da			
3) 🔲 Inform	nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa			

Application/Control Number: 10/814,807

Art Unit: 1745

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/10/2007 has been entered.

Rejection Withdrawn

2. The 35 U.S.C. 103(a) rejection of claims 1-3 unpatentable over Nowobilski et al. in view of Rusek Jr. et al. has been withdrawn due to applicant's amendment filed on 5/10/2007.

New Rejection

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nowobilski et al. (4726974) in view of Heffelfinger et al. (5987833).

As to claim 1, Nowobilski et al. discloses a vacuum heat insulating material comprising a core material (figure 1 number 3) and a gas absorbent (col. 3 lines 33-37)

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a bag made from a gas barrier film housing the core material and the gas absorbent (col. 2 line 2-3) wherein the interior of the bag has a reduced pressure and the bag is air-tightly sealed (col. 3 lines 65-68), wherein the core material is a molded product obtained by coating a resin binder on inorganic fibers (col. 3 lines 3-12) having a average fiber diameter of less then 5um (col. 2 lines 46-48) which reads on applicant's claimed range of 3-5um. Nowoilski et al. discloses that the binder is phenolic type binder (col. 3 line 4). As to claim 2, Nowoilski et al. discloses that the inorganic fibers are glass fibers (col. 1 line 65).

Nowoilski et al. fail to disclose binder coating amount in the range of 0.5 to 1.5wt%. Heffelfinger et al. teaches less than 1% by weight of binder based on the weight of glass in the insulation product (col. 5 lines 5-6) which is within applicant's claimed range of 0.5-1.5wt% for the purpose of providing fibers that are capable of much greater movement (col. 5 line 1-2).

Therefore, it would have been obvious to one having ordinary skill in the art at the time applicant's invention was made to provide Nowobilski with 0.5-1.5 by weight of binder based on the weight of glass in the insulation product in order to provide fibers that are capable of much greater movement (col. 5 line 1-2) as taught by Heffelfinger et al.

As to applying heat pressing the inorganic fibers, or a laminate fabricated by stacking two or more sheets of the molded product is a product by process limitation.

The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the

prior art, the claim is unpatentable even though the prior product was made by a different process. *In re Thorpe*, 227 USPQ 964, 966 (Fed. Cir. 1985).

Response to Arguments

4. Applicant's arguments with respect to claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jane Rhee whose telephone number is 571-272-1499. The examiner can normally be reached on M-F 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Jane Rhee May 22,2007